

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF PENNSYLVANIA

ROBIN NIXON,)	
Plaintiff)	
)	
v.)	CIVIL ACTION NO. 05-101 ERIE
)	
NORFOLK SOUTHERN CORPORATION)	
and NORFOLK SOUTHERN RAILWAY)	
COMPANY, INC.,)	
Defendants)	ELECTRONICALLY FILED

AFFIDAVIT OF GARY E. NELSON

STATE OF GEORGIA)	
)	ss:
COUNTY OF FULTON)	

Gary E. Nelson, being duly sworn according to law, deposes and says:

1. I am the Manager Car Administration of Norfolk Southern Railway Company and have an office address of Norfolk Southern Railway Company, Mechanical Department, 1200 Peachtree Street, N.E., Box 184, Atlanta, Georgia 30309.

2. As Manager Car Administration, I am the custodian of drawings that contain dimensions and other data with respect to certain Norfolk Southern rail cars, including coal cars, utilized by Norfolk Southern Railway Company to make up its trains.

3. Based on my review of the train consist of Norfolk Southern Train Y47-L2-26 that was involved in the April 27, 1997 accident in the City of Erie, Pennsylvania, I have

attached copies of 13 coal car diagrams (Norfolk Southern Car Class H11R, H11AR, H11BR, H11CR, H11DR, H11ER, H49, H50, H62R, G85R, G86R, G91R and G98R) that represent the types of coal cars that made up the subject train. A copy of the train consist for Norfolk Southern Train Y47-L2-26 is attached hereto as Exhibit A, and copies of the 13 coal car diagrams are attached hereto as Exhibit B.

4. These coal cars range from 9 feet, 7-1/8 inches to 9 feet, 7-7/8 inches in width between the outer edges of the sill steps of the cars without consideration of the additional width if the ladders or hand holds that extend out from the sides of the cars are considered. The width of each of these coal cars exceeds the length of the standard ties utilized by Norfolk Southern Railway Company that measure 8 feet, 6 inches from end of tie to end of tie.

s/ Gary E. Nelson
Gary E. Nelson

Sworn to and subscribed before me
this 25th day of June, 2007.

s/ Gregory B. Jucha
Notary Public

CERTIFICATE OF SERVICE

I hereby certify that on June 25, 2007, the foregoing Affidavit of Gary E. Nelson was filed electronically with the Clerk of Court using the Electronic Case Filing system. Notice of this filing will be sent to all parties by operation of the Court's ECF system and constitutes service of this filing under Rule 5(b)(2)(D) of the Federal Rules of Civil Procedure. Parties may access this filing through the Court's ECF system.

s/ Roger H. Taft
Roger H. Taft, Esq.

THIS TRAIN CONTAINS THE FOLLOWING "KEY-TRAIN" HAZARDOUS MATERIALS LOADS:

	IN TRAIN	SET-OUT/PICK-UP
* POISON INHALATION HAZARD (HZ A OR B)	0 (PIH)	
* DIVISION 1.1 OR 1.2 (EXPLOSIVES A)	0 (XA)	
* DIVISION 2.1 (FLAMMABLE GAS)	0 (FG)	
* ENVIRONMENTALLY SENSITIVE CHEMICALS	0 (ESC)	
* TOTAL:	0	

L2 OUT BELLEVUE OH 00248 0345A
 L2 IN CONNEAUT OH 00116 0825A

CAR HANDLING REPORT FOR TRAIN Y47-L2-26 DIRECTION: OUT PAGE 01 OF ____
 DEPARTED BELLEVUE OH 04/27/97 06:25 AM PRINTED 04/27/97 09:01 AM
 CONDUCTOR: ON DUTY: OFF DUTY:

153 CARS = 153 LDS 000 MTYS 19,376 TONS 7,818 FEET **CARS SET OUT**
 LNE INIT NUMBER CMDTY TON CLASS HAND CONSIGNE DEST/OFFJCT TIME TRACK LINE

000 NS	E08669 E	000				
000 NS	E06620 E	000				
000 NS	E08594 E	000				
001 NW	116047 BCOAL 123	BUFFSB	TONCOKE	BUFFALO	NY	
002 NW	008819 BCOAL 122	BUFFSB	TONCOKE	BUFFALO	NY	
003 NS	324998 BCOAL 124	BUFFSB	TONCOKE	BUFFALO	NY	
004 NW	005353 BCOAL 123	BUFFSB	TONCOKE	BUFFALO	NY	
005 NW	166203 BCOAL 124	BUFFSB	TONCOKE	BUFFALO	NY	
006 NW	009156 BCOAL 122	BUFFSB	TONCOKE	BUFFALO	NY	
007 NW	006792 BCOAL 123	BUFFSB	TONCOKE	BUFFALO	NY	
008 NS	307337 BCOAL 124	BUFFSB	TONCOKE	BUFFALO	NY	
009 NW	145002 BCOAL 125	BUFFSB	TONCOKE	BUFFALO	NY	
010 NW	144274 BCOAL 127	BUFFSB	TONCOKE	BUFFALO	NY	
011 NW	011565 BCOAL 125	BUFFSB	TONCOKE	BUFFALO	NY	
012 NS	320433 BCOAL 125	BUFFSB	TONCOKE	BUFFALO	NY	
013 NS	366001 BCOAL 127	BUFFSB	TONCOKE	BUFFALO	NY	
014 NS	307892 BCOAL 128	BUFFSB	TONCOKE	BUFFALO	NY	
015 NW	013625 BCOAL 126	BUFFSB	TONCOKE	BUFFALO	NY	
016 NW	120225 BCOAL 127	BUFFSB	TONCOKE	BUFFALO	NY	
017 NW	003216 BCOAL 126	BUFFSB	TONCOKE	BUFFALO	NY	
018 NS	317496 BCOAL 129	BUFFSB	TONCOKE	BUFFALO	NY	
019 SOU	360495 BCOAL 124	BUFFSB	TONCOKE	BUFFALO	NY	

Exhibit A

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020 NS	334181	BCOAL	128	BUFFSB	TONCOKE	BUFFALO	NY			
021 SOU	360642	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY			
022 NW	012524	BCOAL	126	BUFFSB	TONCOKE	BUFFALO	NY			
023 NS	337088	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY			
024 NS	316903	BCOAL	130	BUFFSB	TONCOKE	BUFFALO	NY			
025 NW	012805	BCOAL	128	BUFFSB	TONCOKE	BUFFALO	NY			
026 NW	003315	BCOAL	125	BUFFSB	TONCOKE	BUFFALO	NY			
027 NW	009635	BCOAL	126	BUFFSB	TONCOKE	BUFFALO	NY			
028 NW	145923	BCOAL	130	BUFFSB	TONCOKE	BUFFALO	NY			
029 NW	014627	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY			
030 NW	145339	BCOAL	137	BUFFSB	TONCOKE	BUFFALO	NY			
031 NS	039063	BCOAL	135	BUFFSB	TONCOKE	BUFFALO	NY			
032 NS	022842	BCOAL	139	BUFFSB	TONCOKE	BUFFALO	NY			
033 NS	032443	BCOAL	132	BUFFSB	TONCOKE	BUFFALO	NY			
034 NS	028412	BCOAL	135	BUFFSB	TONCOKE	BUFFALO	NY			
035 NS	028672	BCOAL	135	BUFFSB	TONCOKE	BUFFALO	NY			
036 NW	145486	BCOAL	130	BUFFSB	TONCOKE	BUFFALO	NY			
037 NW	005027	BCOAL	128	BUFFSB	TONCOKE	BUFFALO	NY			
038 NW	003105	BCOAL	129	BUFFSB	TONCOKE	BUFFALO	NY			
039 SOU	360509	BCOAL	131	BUFFSB	TONCOKE	BUFFALO	NY			
040 NW	013913	L	130	BUFFSB	BETSTEEL	BUFFALO	NY			
041 NS	312579	BCOAL	123	BUFFSB	TONCOKE	BUFFALO	NY			
042 NW	119286	BCOAL	125	BUFFSB	TONCOKE	BUFFALO	NY			
043 NW	006675	BCOAL	123	BUFFSB	TONCOKE	BUFFALO	NY			
044 SOU	077798	BCOAL	128	BUFFSB	TONCOKE	BUFFALO	NY			
RESTRICTED TO EMPTY MOVE ONLY. IF LOAD CALL MECH TO INSPECT.										
045 NW	146059	BCOAL	128	BUFFSB	TONCOKE	BUFFALO	NY			
046 NW	009148	BCOAL	123	BUFFSB	TONCOKE	BUFFALO	NY			
047 SOU	360612	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY			
048 NW	005483	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY			
049 NW	006702	BCOAL	126	BUFFSB	TONCOKE	BUFFALO	NY			
050 NW	093706	BCOAL	125	BUFFSB	TONCOKE	BUFFALO	NY			
051 NW	119039	BCOAL	126	BUFFSB	TONCOKE	BUFFALO	NY			

053	NS	303009	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY	-----
054	SOU	360056	BCOAL	127	BUFFSB	TONCOKE	BUFFALO	NY	-----
055	SOU	351588	BCOAL	133	BUFFSB	TONCOKE	BUFFALO	NY	-----
056	NW	146021	BCOAL	132	BUFFSB	TONCOKE	BUFFALO	NY	-----
057	NS	318701	BCOAL	129	BUFFSB	TONCOKE	BUFFALO	NY	-----
058	NS	317857	BCOAL	130	BUFFSB	TONCOKE	BUFFALO	NY	-----
059	NW	144621	BCOAL	130	BUFFSB	TONCOKE	BUFFALO	NY	-----
060	NS	351545	BCOAL	135	BUFFSB	TONCOKE	BUFFALO	NY	-----
061	NS	032005	BCOAL	129	BUFFSB	BETSTEEL	BUFFALO	NY	-----
062	NW	005944	BCOAL	126	BUFFSB	BETSTEEL	BUFFALO	NY	-----
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066	NW	146242	BCOAL	128	BUFFSB	BETSTEEL	BUFFALO	NY	-----
067	NW	003484	BCOAL	126	BUFFSB	BETSTEEL	BUFFALO	NY	-----
068	NW	117334	BCOAL	127	BUFFSB	BETSTEEL	BUFFALO	NY	-----
069	NW	144360	BCOAL	128	BUFFSB	BETSTEEL	BUFFALO	NY	-----
070	NW	013118	BCOAL	129	BUFFSB	BETSTEEL	BUFFALO	NY	-----
071	NW	146410	BCOAL	134	BUFFSB	BETSTEEL	BUFFALO	NY	-----
072	NW	093455	BCOAL	125	BUFFSB	BETSTEEL	BUFFALO	NY	-----
073	NW	117654	BCOAL	123	BUFFSB	BETSTEEL	BUFFALO	NY	-----
074	NS	317770	BCOAL	125	BUFFSB	BETSTEEL	BUFFALO	NY	-----
075	SOU	360976	BCOAL	126	BUFFSB	BETSTEEL	BUFFALO	NY	-----
076	NW	012104	BCOAL	124	BUFFSB	BETSTEEL	BUFFALO	NY	-----
077	NW	145878	BCOAL	125	BUFFSB	BETSTEEL	BUFFALO	NY	-----
078	NW	145983	BCOAL	128	BUFFSB	BETSTEEL	BUFFALO	NY	-----
079	NW	143049	BCOAL	126	BUFFSB	BETSTEEL	BUFFALO	NY	-----
080	NS	320200	BCOAL	125	BUFFSB	BETSTEEL	BUFFALO	NY	-----
081	NS	312684	BCOAL	126	BUFFSB	BETSTEEL	BUFFALO	NY	-----
082	NS	333276	BCOAL	124	BUFFSB	BETSTEEL	BUFFALO	NY	-----
083	NW	009492	BCOAL	123	BUFFSB	BETSTEEL	BUFFALO	NY	-----
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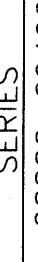
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087 NS	320509 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
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090 NW	116476 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
091 NW	011049 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
092 NS	304826 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
093 NW	145227 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
094 NW	004655 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
095 NW	146119 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
096 NW	010391 BCOAL 123 BUFFSB	BETSTEEL BUFFALO NY	-----
097 NS	331748 BCOAL 123 BUFFSB	BETSTEEL BUFFALO NY	-----
098 NS	337070 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
099 NW	146127 BCOAL 128 BUFFSB	BETSTEEL BUFFALO NY	-----
100 NS	310833 BCOAL 123 BUFFSB	BETSTEEL BUFFALO NY	-----
101 NS	319857 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
102 NW	010627 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
103 NW	144228 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
104 SDU	360627 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
105 NW	005770 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
106 NW	144152 BCOAL 127 BUFFSB	BETSTEEL BUFFALO NY	-----
107 NW	005576 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
108 NW	146415 BCOAL 128 BUFFSB	BETSTEEL BUFFALO NY	-----
109 NW	004167 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
110 NS	336971 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
111 NW	012168 BCOAL 128 BUFFSB	BETSTEEL BUFFALO NY	-----
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113 NS	320514 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
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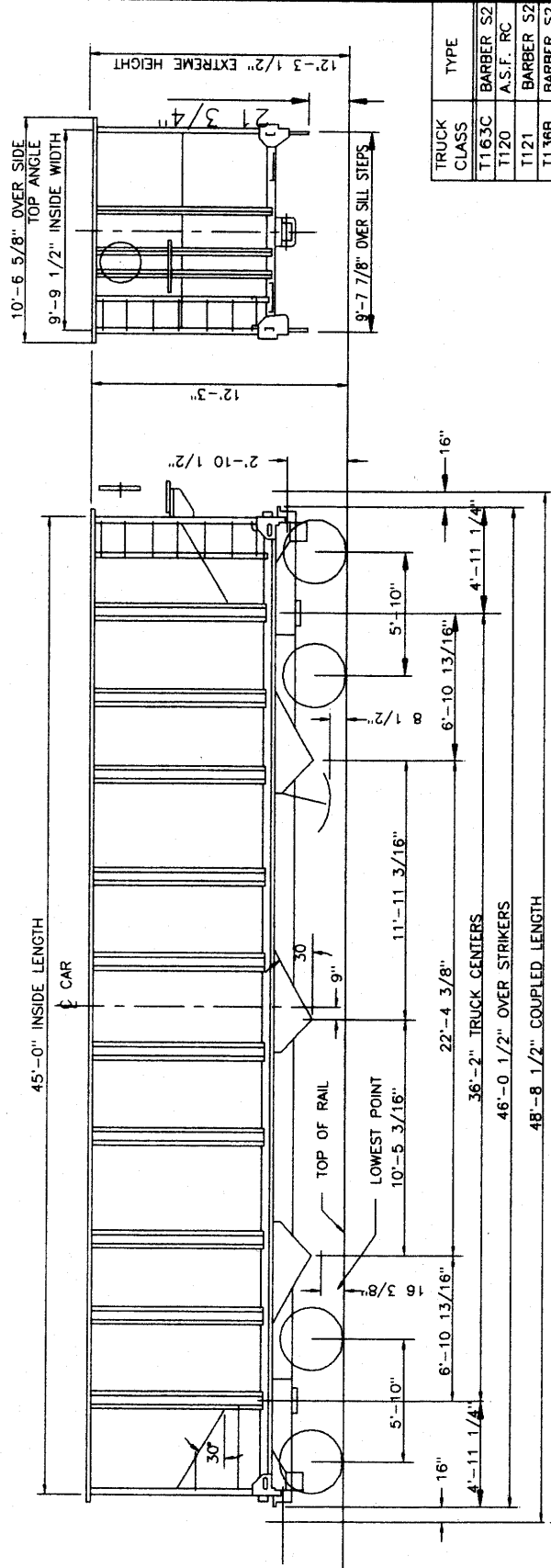
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123 NS	304233 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
124 NW	008638 BCOAL 127 BUFFSB	BETSTEEL BUFFALO NY	-----
125 SOU	360511 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
126 SOU	360750 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
127 NW	144613 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
128 NS	303415 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
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132 NS	375765 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
133 NS	307775 BCOAL 129 BUFFSB	BETSTEEL BUFFALO NY	-----
134 NW	134240 BCOAL 127 BUFFSB	BETSTEEL BUFFALO NY	-----
135 NW	144964 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
136 NS	319846 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
137 NS	320764 BCOAL 125 BUFFSB	BETSTEEL BUFFALO NY	-----
138 SOU	360528 BCOAL 124 BUFFSB	BETSTEEL BUFFALO NY	-----
139 NW	013862 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
140 NS	028424 BCOAL 129 BUFFSB	BETSTEEL BUFFALO NY	-----
141 NW	145635 BCOAL 126 BUFFSB	BETSTEEL BUFFALO NY	-----
142 NW	008848 BCOAL 123 BUFFSB	BETSTEEL BUFFALO NY	-----
143 NS	023132 BCOAL 133 BUFFSB	BETSTEEL BUFFALO NY	-----
144 NS	031847 L 129 BUFFSB	ADMIRE LAMBERTS VA	-----
145 NS	039253 BCOAL 133 BUFFSB	BETSTEEL BUFFALO NY	-----
146 NS	026642 BCOAL 127 BUFFSB	BETSTEEL BUFFALO NY	-----
147 NS	028810 BCOAL 127 BUFFSB	BETSTEEL BUFFALO NY	-----
148 NS	021396 BCOAL 134 BUFFSB	BETSTEEL BUFFALO NY	-----
149 NS	030984 BCOAL 128 BUFFSB	BETSTEEL BUFFALO NY	-----
150 NS	026911 BCOAL 128 BUFFSB	BETSTEEL BUFFALO NY	-----

152 SOU 30345 L 153 BUFFCO BETSTEEL BUFFALO NY -----

153 NS 023396 BCOAL 136 BUFFCO PDCCCBIL LAMBERTF VA -----

	LOADS	EMPTYES	NET TONS	LT WT	GROSS TONS	LENGTH
TRAIN TOTALS:	153	000	14769	04607	19376	07818
AHEAD RADIO:	000	000	00000	00000	00000	00000
TOTALS DO NOT INCLUDE UNITS AND/OR CABOSES						

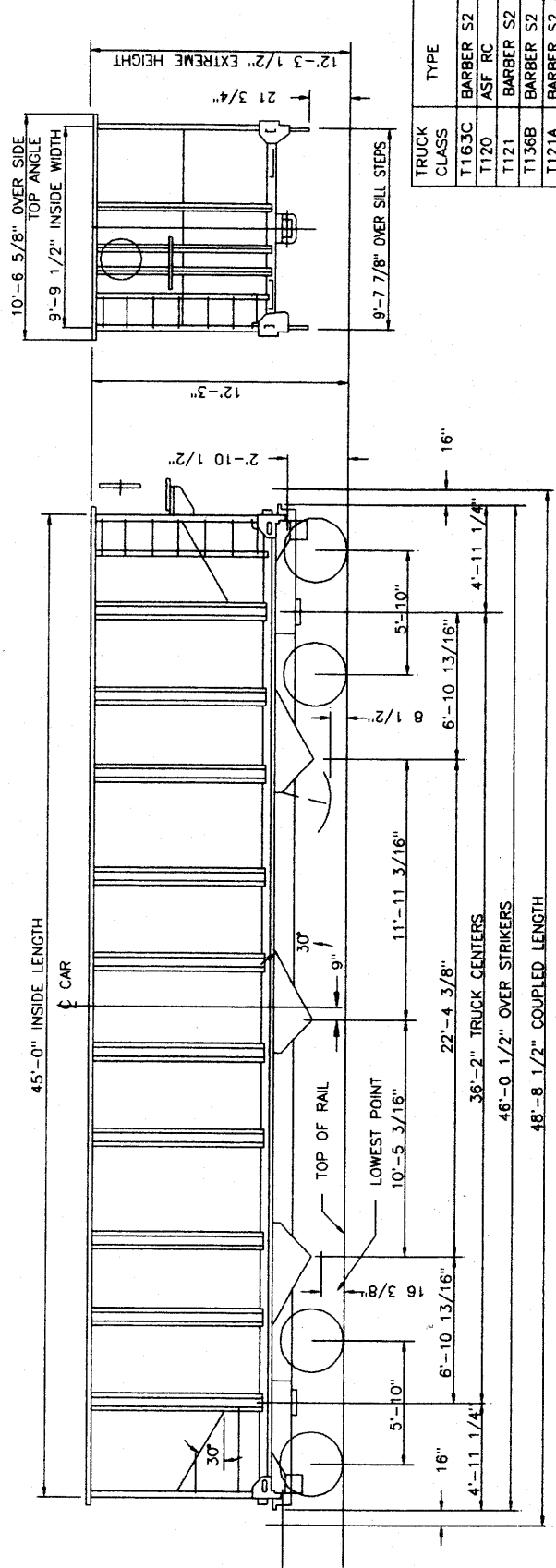
		NORFOLK SOUTHERN MECHANICAL DEPARTMENT		RR	SERIES	CLASS
ACAD95				NW	66000-69499 166000-169499 74000-75999	H11R
					174000-175999	
				NS	366000-366499 374000-375999	
REVISION DATES			YEAR BUILT			
			SERIES			
			NW 74000-74967, NW 174000-174967, NS 374000-374967			
			NW 74968-75999, NW 174968-175999, NS 374968-375999			
			NW 66000-66740, NW 166000-166740, NS 366000-366740			
			NW 66741-69499, NW 166741-169499, NS 366741-369499			
			1961 1962 1962 1963			

[illegible]

REVISION DATES		RR	SERIES	CLASS
ACAD95				
		NW	92000-94999	H11AR
		NS	32000-324999	

NORFOLK SOUTHERN MECHANICAL DEPARTMENT

SERIES	YEAR BUILT
NW 92000-92356, NS 322000-322356	1963
NW 92357-94999, NS 322357-324999	1964



GENERAL DATA		GENERAL DATA		CAR BODY DATA		TRUCK DATA	
BUILT BY -	ROANOK SHOPS	MIN. CURVE COUPLED -	156' RAD.	FLOOR -	9/32" PLATE, A.S.T.M. A-242 TYPE 1	CLASS -	SEE TABLE
YEAR BUILT -	SEE TABLE	MIN. CURVE UNCOUPLED -	139' RAD.	DOORS -	WINE FRAMES & FIXTURES	TYPE -	SEE TABLE
CUBIC CAPACITY -	3480 LEVEL, 3845 HEAP	MIN. CURVE CPD. TO STD 40' -		END -	9/32" PLATE, A.S.T.M. A-242 TYPE 1	TRUCK ARRT. DWG. -	
AVG. LD. LMT. -	203,000 LBS.			SPECIAL EQUIPMENT -		JOURNAL -	6 1/2" X 12" ROLLER BEARING
AVG. LT. WT. -	60,000 LBS.					WHEELS -	36" DIA.
BUILDER'S LOT/SPEC. -	BILL OF MAT'L. NO. 648					BRAKE SHOES -	2" H.F. COMPOSITION
NS SPEC. -						BRAKE BEAMS -	NO 18 (UNIT)
AFE/PA -	P.A. 17001					SIDE BEARING -	
CAR REQUEST/PROGRAM -						SPECIAL TRUCK EQUIP. -	
GENERAL ARRT. DWG. -	E53050						
BRAKE ARRT. DWG. -	E53300, E53304						
CLEARANCE PLATE -	PLATE B						
EMPTY CENTER OF GRAVITY -							
LOADED CENTER OF GRAVITY -	87.5"						

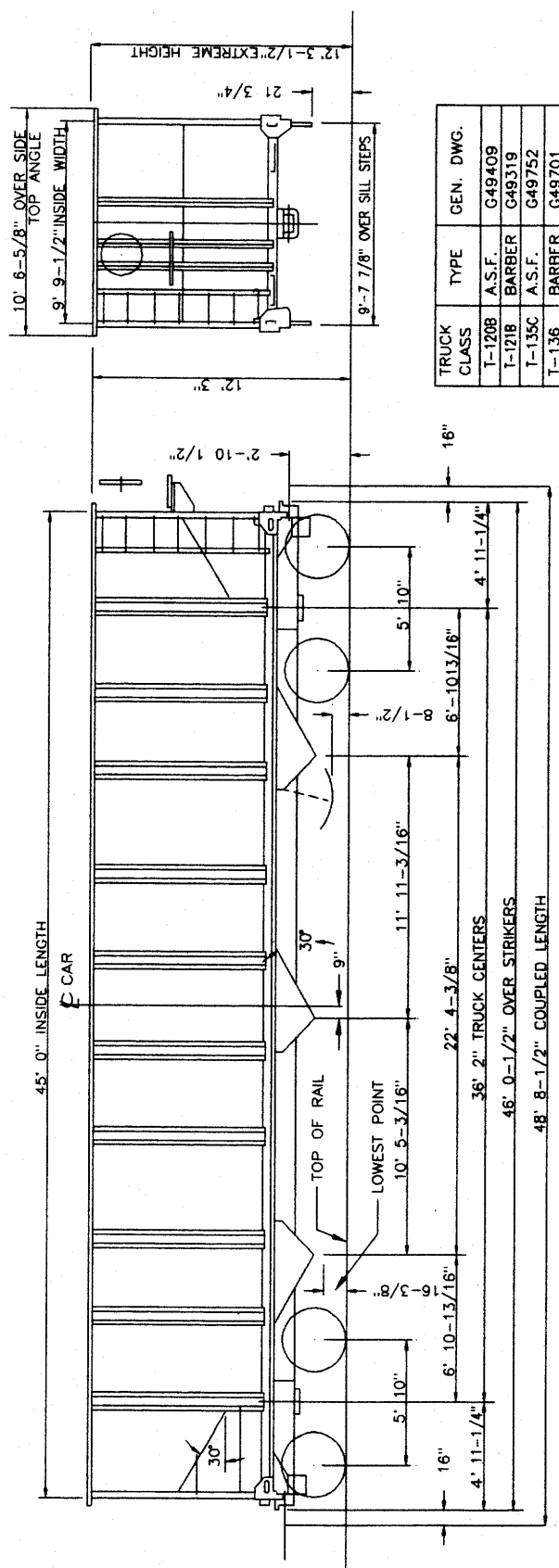
MISCELLANEOUS

REBODIED IN 1991

SHEET NO. H11AR

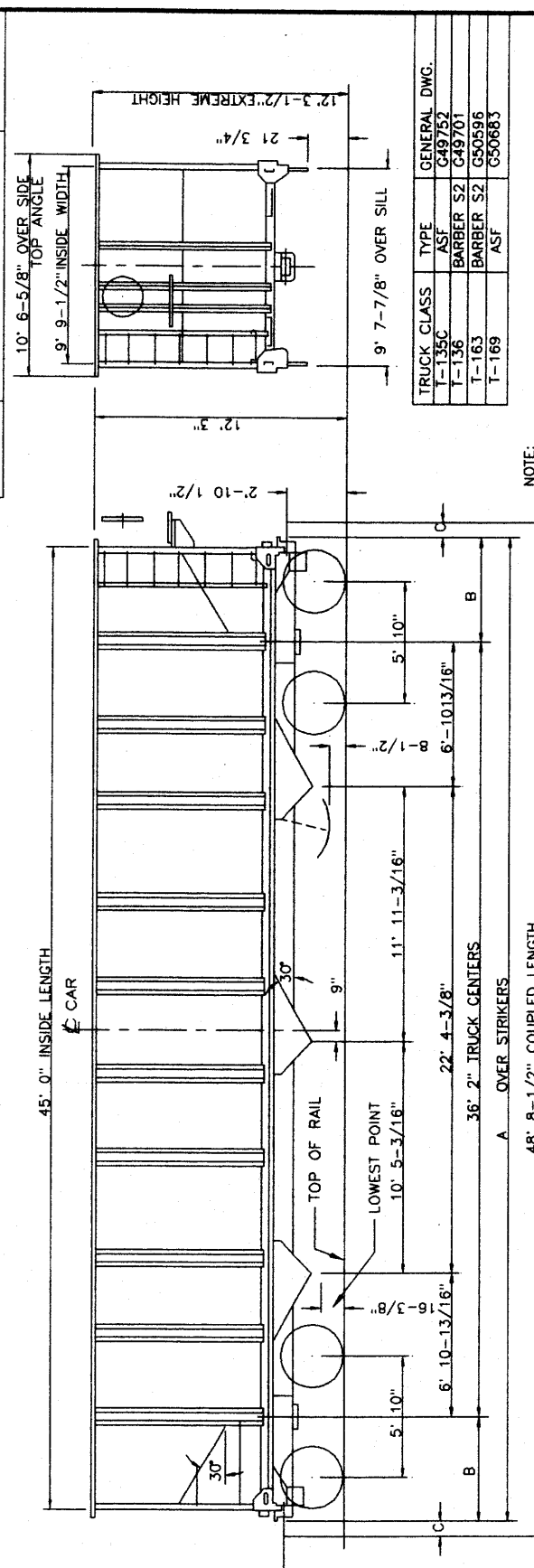
RR	SERIES	CLASS
NW	3000-4699 5000-6999 8500-13999	H11BR
NS	303000-304699 305000-306999 308500-309999 310000-313999	

SERIES	YEAR BUILT	TRUCK CLASS	SERIES	YEAR BUILT	TRUCK CLASS
3000-4699	1957	T-135C	9449-9999	1964	T-136
5000-6999	1966	T-136	10000-11438	1964	T-120
8500-8599			11439-12999	1965	T-121B
8600-9249	1965	T-120B, T121B	13000-13574	1967	T-135C
9250-9448		T-120B	13575-13999	1968	T136



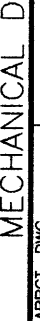
TRUCK CLASS	TYPE	GEN. DWG.
T-120B	A.S.F.	G49409
T-121B	BARBER	G49319
T-135C	A.S.F.	G49752
T-136	BARBER	G49703

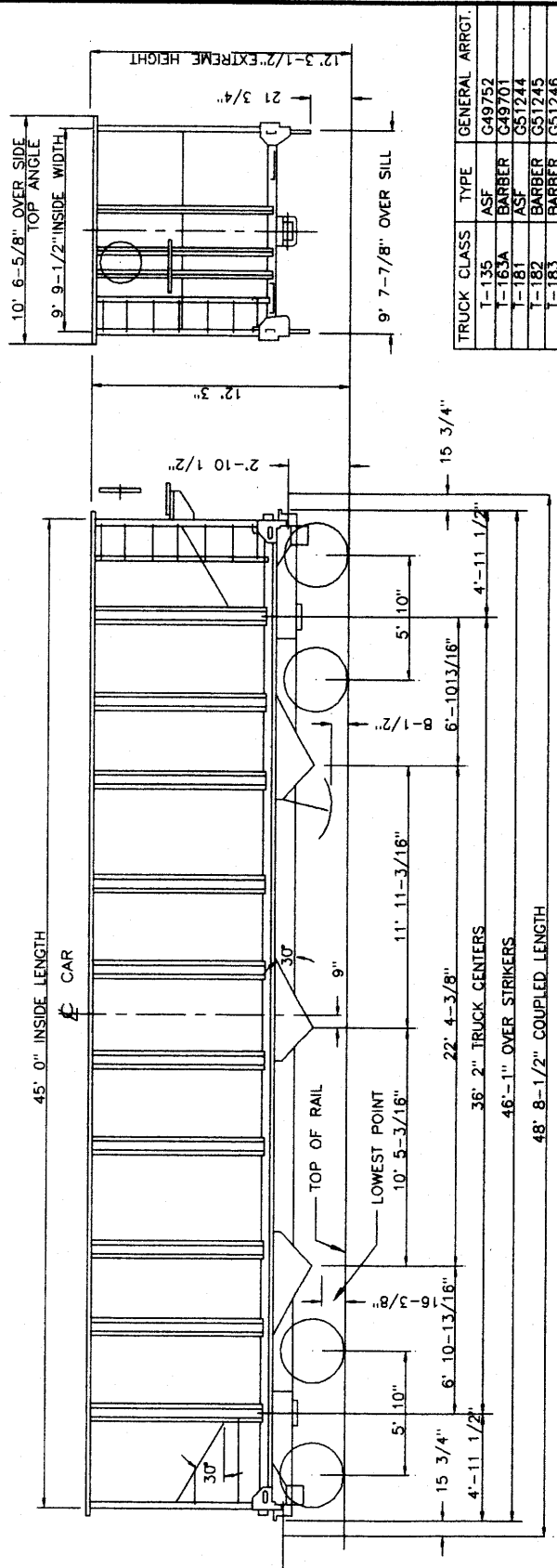
GENERAL DATA		GENERAL DATA		CAR BODY DATA	TRUCK DATA
BUILT BY - ROANOKE SHOPS		MIN. CURVE COUPLED - 156 FT. RAD.		FLOOR - 9/32" PLATE, A.S.T.M. A-242 TYPE 1	CLASS - SEE TABLE
YEAR BUILT - SEE TABLE		MIN. CURVE UNCOPLED - 139 FT. RAD.		DODGRS - WINE FRAMES & FIXTURES	TYPE - SEE TABLE
CUBIC CAPACITY - 3480 LEVEL, 3845 HEAP		MIN. CURVE CPLD. TO STD 40' -		END - 9/32" PLATE, A.S.T.M. A-242 TYPE 1	TRUCK ARRGT. DWG. - SEE TABLE
Avg. LD. LMT. - 202,300 LBS.		CAR BODY DATA		SPECIAL EQUIPMENT -	JOURNAL - 6 1/2" x 12" ROLLER BEARING
Avg. LT. WT. - 60,700 LBS.		BRAKES - VALVE ABD Cyl ABU 1012			WHEELS - 36" DIA.
BUILDER'S LOT/SPEC. - BILL OF MAT'L NO. 64B		EMPTY LOAD BRAKES -			BRAKE SHOES - 2" H.F. COMPOSITION
NS SPEC. -		NS LOAD BRAKES -			BRAKE BEAMS - NO 18 (UNIT)
AFE/PA -		SPECIAL BRAKE EQUIP -			SIDE BEARING -
CAR REQUEST/PROGRAM -		CENTER SILL - C213 X 41.2			SPECIAL TRUCK EQUIP. -
GENERAL ARRGT. DWG. - E53050		DRAFT GEAR - GROUP J			
BRAKE ARRGT. DWG. - E53055		CUSHION UNIT -			
CLEARANCE PLATE - PLATE B		COUPLER - AAR TYPE E60CE			
EMPTY CENTER OF GRAVITY -		BODY CENTER PLATE - 14" DIA.			MISCELLANEOUS
LOADED CENTER OF GRAVITY - 87.5"		UNDERFRAME - RIVETED AND WELDED			REBODY STARTED IN 1988
					SHEET NO. H11BP

[illegible]

FIRST 300 CARS HAVE ASTM A441 STEEL FOR FLOORS, SIDES AND HOPPERS. SIDES ARE 7/32" THICK & EST. WT. IS 59,800 LBS.

[illegible]

REVISION DATES		NORFOLK SOUTHERN		RR	SERIES	CLASS
ACAD95		 NORFOLK SOUTHERN MECHANICAL DEPARTMENT		NW	116000-119999	H11DR
					133000-133099	
					316000-319999	NS
					333000-333099	
SERIES	YEAR BUILT	TRUCK CLASS	BRAKE ARRGT. DWG.			
116000-116115	1969	T-163A	E53058 BEFORE JUNE 1989			
116116-118589	1970	T-135	E53154 AFTER MAY 1989			
118590-118752		T-181, T-182	E53059 BEFORE JUNE 1989			
118753-118999	1971	T-183	E53157 AFTER MAY 1989			
119000-119999						
133000-133099	1969	T-163A	E53057 BEFORE JUNE 1989 E53156 AFTER MAY 1989			

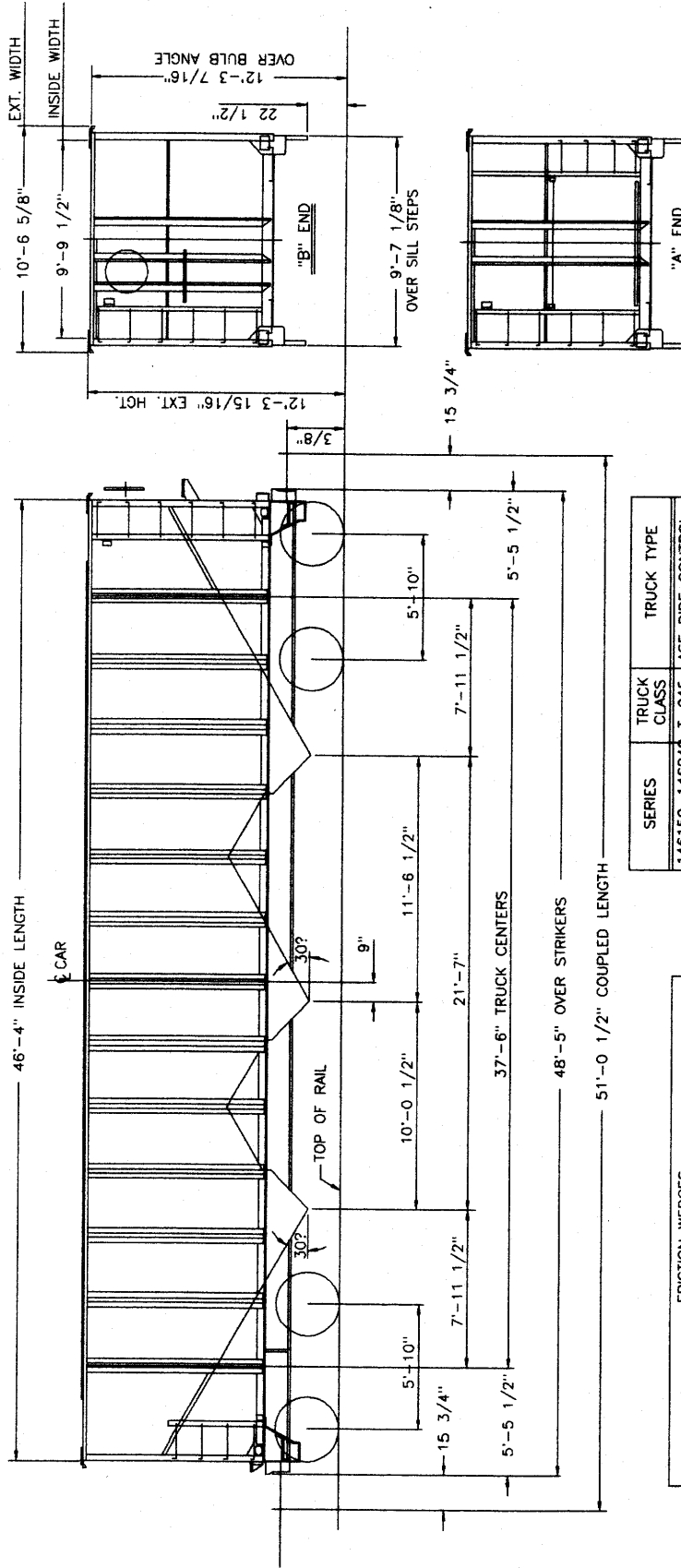


TRUCK CLASS	TYPE	GENERAL ARROT.
T-135	ASF	G49752
T-163A	BARBER	G49701
T-181	ASF	G51244
T-182	BARBER	G51245
T-183	BARBER	G51246

NOTE:
FIRST 300 CARS HAVE ASTM A441 STEEL FOR FLOORS, SIDES AND HOPPERS. SIDES ARE 7/32" THICK & EST. WT. IS 59,800 LBS.

GENERAL DATA		GENERAL DATA		CAR BODY DATA	TRUCK DATA
BUILT BY - ROANOKE SHOPS		MIN. CURVE COUPLED - 156 FT. RAD.		FLOOR - 9/32" PLATE, A.S.T.M. A-242 TYPE 1	CLASS - SEE TABLE
YEAR BUILT - SEE TABLE		MIN. CURVE UNCOUPLED - 139 FT. RAD.			TYPE - SEE TABLE
CUBIC CAPACITY - 3480 LEVEL, 3845 HEAP		MIN. CURVE CPD. TO STD 40' -		DOORS - WINE FRAMES & FIXTURES	TRUCK ARRGT. DWG. - SEE TABLE
AVG. LD. LMT. - 202,300 LBS.				END - 9/32" PLATE, A.S.T.M. A-242 TYPE 1	JOURNAL - 6 1/2" X 12" ROLLER BEARING
AVG. LT. WT. - 60,700 LBS.		CAR BODY DATA			WHEELS - 36" DIA.
AVG. LOT/SPEC. - BILL OF MAT'L NO. 648		BRAKES - VALVE ABD CYL ABU 1012		SPECIAL EQUIPMENT -	BRAKE SHOES - 2" H.F. COMPOSITION
N'S SPEC. -		EMPTY LOAD BRAKES -			BRAKE BEAMS - NO 18 (UNIT)
A/E/P/A -		SPECIAL BRAKE EQUIP -			SIDE BEARING -
GENERAL ARRGT. DWG. - E53050		CENTER SILL - CSC13 X 41.2			SPECIAL TRUCK EQUIP. -
DRAFT GEAR - GROUP J					
CUSHION UNIT -					
COUPLER - A.A.R. TYPE E60CE					
BODY CENTER PLATE - 14" DIA.					MISCELLANEOUS
UNDERFRAME - RIVETED AND WELDED					REBODY STARTED IN 1988
LOADED CENTER OF GRAVITY - 87.5"					

REVISION DATES		RR	SERIES	CLASS
ACAD95				
		NW	146150-146449	H50
<div style="text-align: center;">  NORFOLK SOUTHERN MECHANICAL DEPARTMENT </div>				



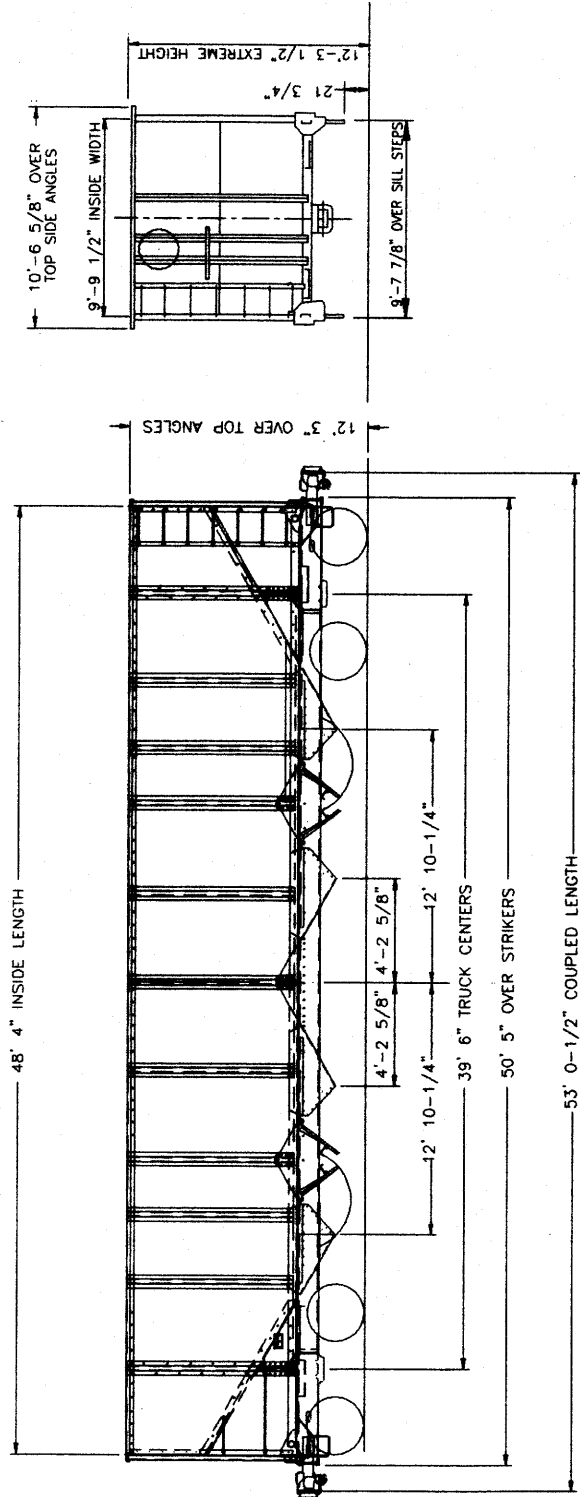
SERIES	TRUCK CLASS	TRUCK TYPE
146150-146249	T-245	ASF RIDE CONTROL
146250-146449	T-246	BARBER S-2 HD

FRICTION WEDGES	
146150-146249	- RIDE CONTROL - SLOPEGARD-PAD
146250-146449	- BARBER S-2-HD STEEL FRICTION CASTING

GENERAL DATA		CAR BODY DATA		TRUCK DATA	
BUILT BY -	TRINITY INDUSTRIES	FLOOR -	9/32" PLATE, A.S.T.M. A-242 TYPE 1	CLASS -	SEE TABLE
YEAR BUILT -	1990	DOORS -	WINE 4HF-1207	TYPE -	SEE TABLE
CUBIC CAPACITY -	3600 LEVEL, 3978 HEAP	END -	9/32" PLATE, A.S.T.M. A-242 TYPE 1	TRUCK ARRGT. DWG. -	JOURNAL - 6 1/2" X 12" ROLLER BEARING
AVG. LD. LMT. -	199,000 LBS	SPECIAL EQUIPMENT -		WHEELS -	36" DIA.
AVG. LT. WT. -	63,300 LBS	BRAKES -	DB-10/20 KNORR	BRAKE SHOES -	2" H.F. COMPOSITION
BUILDER'S LOT/SPEC. -	LOT NO. 2104	EMPTY LOAD BRAKES -		BRAKE BEAMS -	NO 18 (UNIT)
NS SPEC. -	MET023	SPECIAL BRAKE EQUIP -		SIDE BEARING -	
AFE/PA -	AFE 90-0501	CENTER SILL -	CSC13 X 41.2	SPECIAL TRUCK EQUIP. -	SEE TABLE
CAR REQUEST/PROGRAM -		DRAFT GEAR -	GROUP J		
GENERAL ARRGT. DWG. -	F-42120	CUSHION UNIT -			
BRAKE ARRGT. DWG. -	F-42121	COUPLER -	A.A.R. TYPE SBE600E		
CLEARANCE PLATE -	PLATE B	BODY CENTER PLATE -	16" DIA.		
EMPTY CENTER OF GRAVITY -	48.2"	UNDERFRAME -	WELDED		
LOADED CENTER OF GRAVITY -	88.9"				
				MISCELLANEOUS	
				CROSSOVER STEP ON "A" END	
				SHEET NO. H50	

REVISION DATES		RR		SERIES		CLASS	
ACAD R13		NS		300300-302799		H62R	

NORFOLK SOUTHERN
MECHANICAL DEPARTMENT



GENERAL DATA

BUILT BY -	ROANOKE	CUBIC CAPACITY -	EST. 3830
YEAR BUILT -	1998-99	EMPTY CENTER OF GRAVITY -	
BUILDER'S LOT/SPEC. -		LOADED CENTER OF GRAVITY -	
NS SPEC. -		CLEARANCE PLATE -	
CAR REQUEST/PROGRAM -		MAX. CURVE COUPLED -	
CARD LIST -		MAX. CURVE UNCOUPLED -	
AFE/PA -	97-0052		
AVG. LT. WT. -	63,600		
CARBODY WT. -			
WEIGHT ONE TRUCK -			
AVG. LD. LMT. -	222,400		

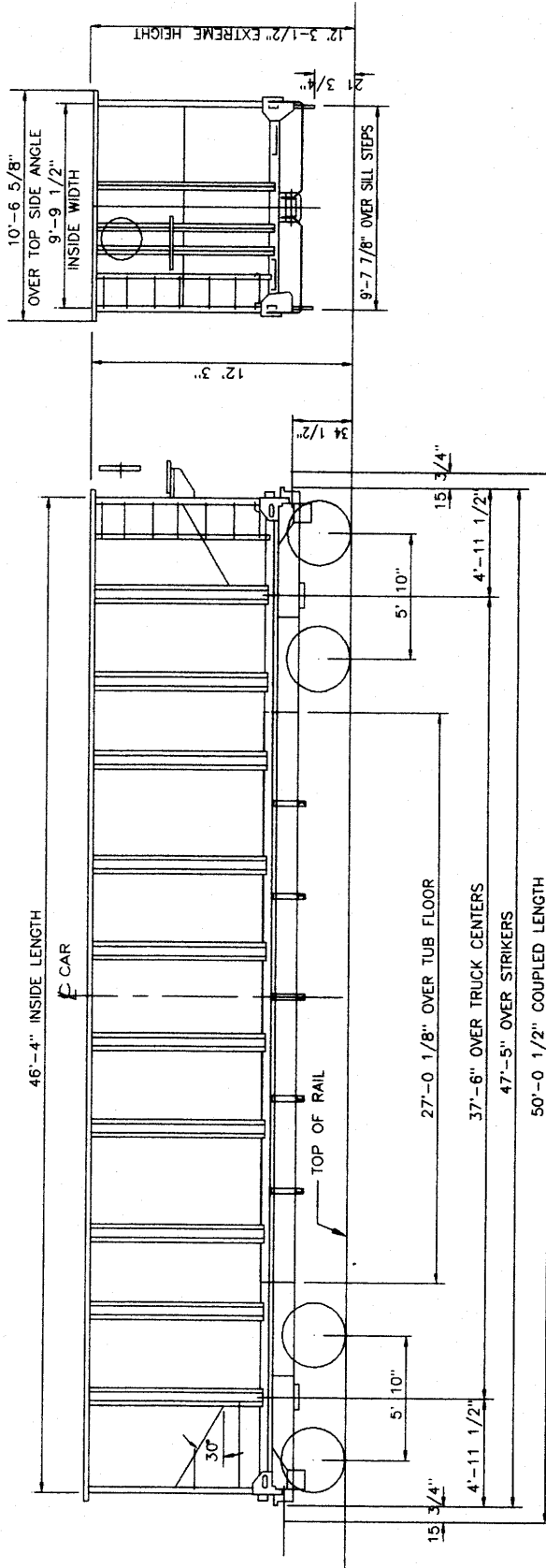
ARRANGEMENT DWGS.

GENERAL ARRGT. DWG. -	
UNDERFRAME ARRGT. DWG. -	
BRAKE ARRGT. DWG. -	
ROOF ARRGT. DWG. -	
DOOR ARRGT. DWG. -	
SIDE ARRGT. DWG. -	
END ARRGT. DWG. -	
TRUCK ARRGT. DWG. -	
STENCIL ARRGT. DWG. -	

MISCELLANEOUS

30 DEG. END SLOPES	
30 DEG. POCKETS	
30 DEG. TRANSVERSE RIDGES	

SHEET NO. H62R

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NOTES:

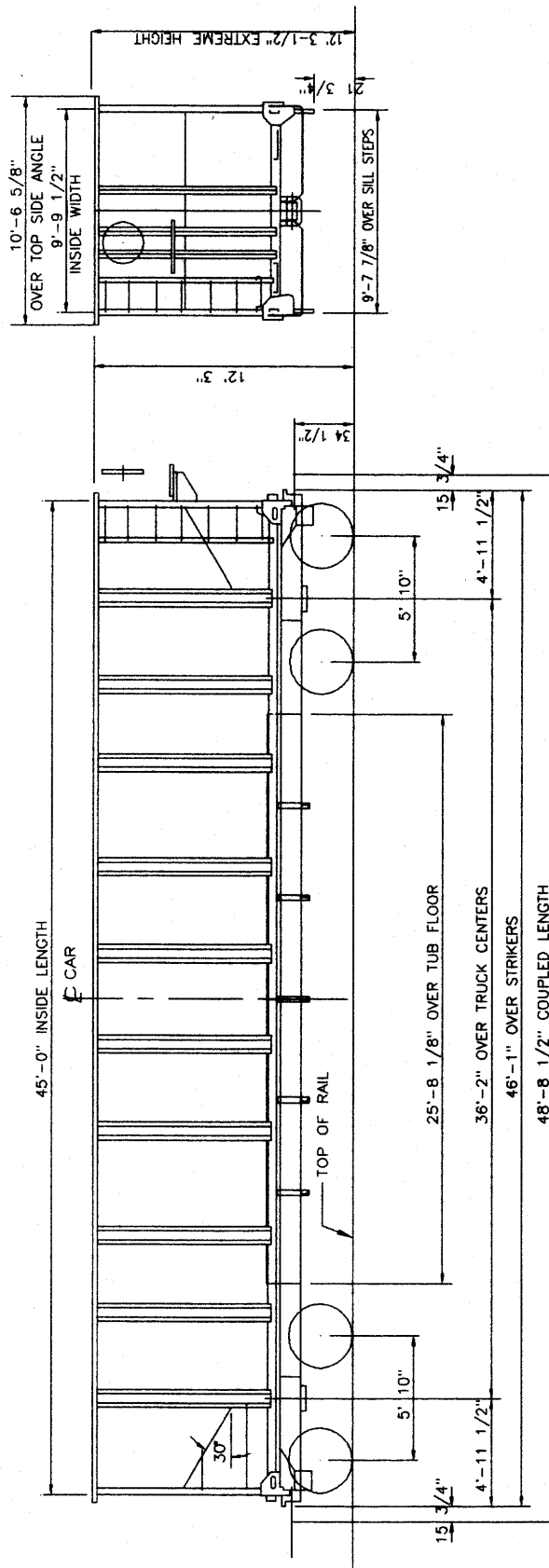
1. REBODIED FROM H11D, H11E, H12.
2. FOR INFORMATION ON YEAR BUILT, TRUCKS, ETC., DETERMINE ORIGINAL CAR NUMBER FROM UMLER AND REFER TO ORIGINAL DIAGRAM.

TOP GON

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REVISION DATES		RR	SERIES	CLASS
ACAD94				
1/8/97		NS	32000-33999	G91R

NORFOLK SOUTHERN
MECHANICAL DEPARTMENT



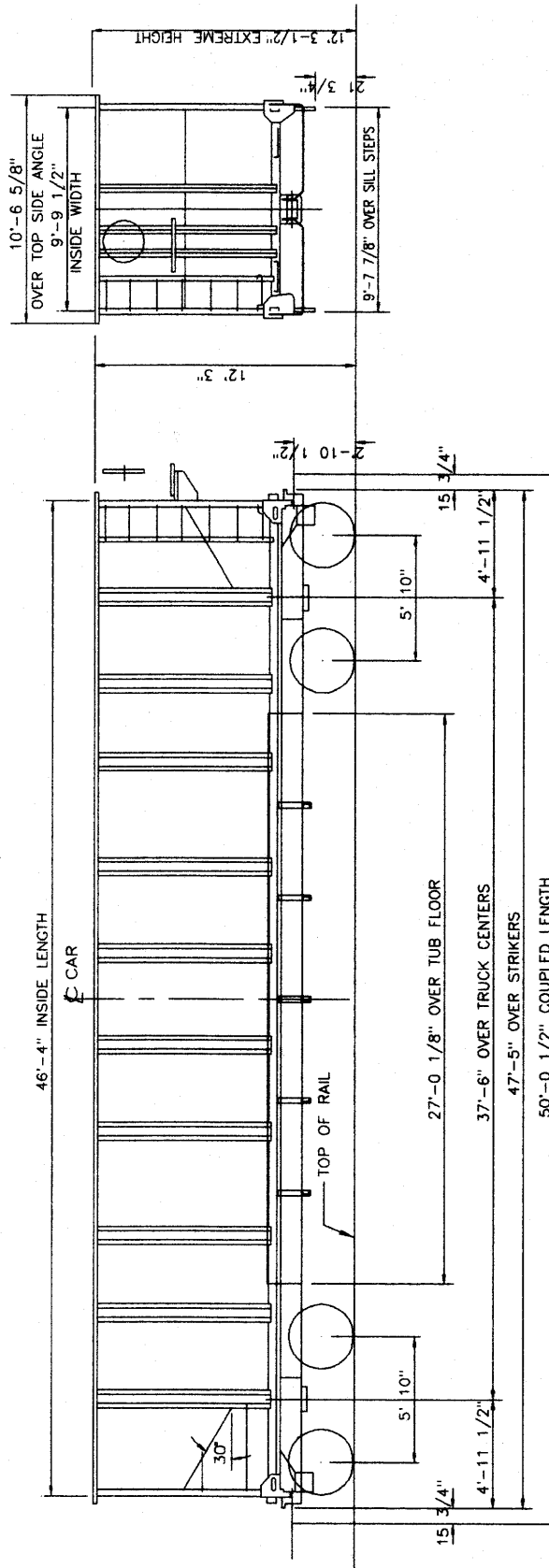
NOTES:

1. REBODIED FROM H11C, H11D.
2. FOR INFORMATION ON YEAR BUILT, TRUCKS, ETC., DETERMINE ORIGINAL CAR NUMBER FROM UMLER AND REFER TO ORIGINAL DIAGRAM.

TOP GON

GENERAL DATA	GENERAL DATA	CAR BODY DATA	TRUCK DATA
BUILT BY - ROANOKE SHOPS	MIN. CURVE COUPLED - 156'	END - 9/32" ASTM A242 TYPE 1	CLASS - SEE NOTES
YEAR BUILT - SEE NOTES	MIN. CURVE UNCOUPLED - 139'	FLOOR - 9/32" ASTM A242 TYPE 1	TYPE - SEE NOTES
CUBIC CAPACITY - 3725 CU. FT.	MIN. CURVE CPLD. TO STD 40' -	LINING -	TRUCK ARRGT. DWG. - SEE NOTES
AVG. LD. LMT. - 204,900 LBS.	CAR BODY DATA		JOURNAL - 6 1/2" X 12" ROLLER BEARING
AVG. LT. WT. - 58,100 LBS.	BRAKES - ABD CYL - ABU 1012	BULKHEADS -	WHEELS - 36" DIA.
BUILDER'S LOT/SPEC. -	EMPTY LOAD BRAKES -	LADING TIE ANCHORS -	BRAKE SHOES - 2" COMP.
NS SPEC. -	SPECIAL BRAKE EQUIP -	SPECIAL EQUIPMENT -	BRAKE BEAMS - AAR NO. 18 (UNIT)
A/E/PA - VARIOUS	CENTER SILL - CSC13 X 41.2		SIDE BEARING - DOUBLE ROLLER
CAR REQUEST/PROGRAM - VARIOUS	DRAFT GEAR - GROUP J		SPECIAL TRUCK EQUIP. -
GENERAL ARRGT. DWG. - E53545	CUSHION UNIT -		
BRAKE ARRGT. DWG. - E53519	COUPLER - E60CE		
CLEARANCE PLATE - PLATE B	BODY CENTER PLATE - 14" DIA.		
EMPTY CENTER OF GRAVITY -	UNDERFRAME - RIVETED AND WELDED		
LOADED CENTER OF GRAVITY - 87.5"			MISCELLANEOUS
			SHEET NO. G91R

REVISION DATES		 NORFOLK SOUTHERN MECHANICAL DEPARTMENT			RR	SERIES	CLASS
ACAD94					NS	40000 - 40999	C98R
1/8/97						41500 - 42499	



NOTES:

1. REBODIED FROM HS18, HS19, HS58.
2. FOR INFORMATION ON YEAR BUILT, TRUCKS, ETC., DETERMINE ORIGINAL CAR NUMBER FROM UMLER AND REFER TO ORIGINAL DIAGRAM.

TOP CON

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